



THE CITY OF  
**MT. PLEASANT**, MICHIGAN

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**CITY HALL**

320 W. Broadway • 48858-2312  
(989) 779-5300  
(989) 773-4691 fax

**PUBLIC SAFETY**

804 E. High • 48858-3595  
(989) 779-5100  
(989) 773-4020 fax

**PUBLIC WORKS**

1303 N. Franklin • 48858-4682  
(989) 779-5400  
(989) 772-6250 fax

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**PRE-BID ADDENDUM NO. 1**

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Project Bid: 2013 Parking Lot #2 Improvements

Bid Date: March 5, 2013

Time: 1:30 p.m.

Opening: Office of the City Clerk  
City Hall  
320 West Broadway St.  
Mt. Pleasant, MI 48858

Addendum Issued By: Division of Public Works

Date Issued: February 21, 2013

Intent:

1. Clarify questions that were asked at the pre-bid meeting on Tuesday, February 19, 2013.
2. Add Special Provisions.
3. Make adjustments to the pay items.

Bid Proposal: Revised and attached

Supplemental Specifications Revised and attached

Special Provisions: Revised and attached

## Clarifications:

1. The temporary striping is included in the quantity of **Pavt Mrkg, Waterborne, 4 inch, white**.
2. If the Contractor deems temporary fencing is required, include in the pay item **Minor Traffic Devices**.
3. Per the MDOT 2012 Standard Specifications for Construction, sawcutting is included in the unit price for the related pay items, (ie. Sidewalk, Rem; Structures, Removal, Portion, etc...). Pay items of **Sidewalk, Rem, Utility** and **Pavt, Rem, Utility** have been added to cover the cost of sawcutting and removal of concrete sidewalk and/or pavement for installation of utilities by others. The area of sidewalk or pavement removed under these pay items will not be paid for again under **Sidewalk, Rem; Cold Milling HMA Surface; or Concrete Pavt, Rem, Special**.
4. It is the Contractor's discretion as to whether the millings from the existing HMA remain on site until needed, or stocked off site.
5. The pay item of **Maintenance Gravel, LM** has been added to cover the cost of the temporary gravel in Phase II.
6. Proper fill and compaction of utility trenches installed by others will be completed by others. The Contractor is not responsible for this.
7. Remove the **Modify Railing, Special** from the contract. All railing adjacent to Isabella Bank will be removed, modified, and replaced by others. This pay item is also being removed from the contract.
8. The stamp used for the Decorative Concrete will become the property of the City after construction is complete.
9. The water service has been changed to a 2" service. This service will be directionally drilled in its entirety.
10. There will be no "tap fees" for connection of the water service or storm sewers to the existing utilities.
11. The density of the milled HMA used as aggregate base will utilize the Michigan Modified T-180 Test to determine maximum density. The test will be performed at the existing moisture content and may have to be recalculated several times throughout the day if the moisture content

changes by more than 1.5%. The required density will be 98% of the maximum density per the MDOT Density Testing and Inspection Manual.

12. Salvaged paver block is to be delivered to the City DPW garage at 1303 N. Franklin St., Mt. Pleasant, MI 48858.
13. The Contractor will furnish signs and posts for stop signs and barrier free parking signs. The City will provide 3-hr and 10-hr parking signs for the Contractor to install on to proposed light poles.
14. The City of Mt. Pleasant will be providing the staking.
15. At this time, the City of Mt. Pleasant will provide the Resident Project Representative (RPR).
16. Material testing will be coordinated by the RPR.
17. 2 inches of virgin 22A aggregate base shall be placed on top of the existing HMA before the milling process begins. This aggregate will be mixed with the milled HMA during the milling process. The virgin aggregate will be paid as **Aggregate Base, 2 inch** with a pay unit of **SYD**.
18. The base bid shall use the reclaimed HMA millings as the aggregate base under the proposed HMA. After removal of the existing concrete pavement below the existing HMA has been completed, Class II granular fill shall be used as required fill and subbase to the underside of the proposed aggregate base. Any excess millings that are not required as aggregate base can be utilized as fill and/or subbase below the proposed HMA or under the concrete sidewalks. The use of excess millings as granular material will be paid for as **Subbase, CIP** as if it were granular material transported to the site.

The following alternates should be considered and corresponding cost adjustments shall be placed on the revised bid form that is attached to this Addendum:

- a. **Alternate #2** - Remove and dispose of existing HMA and concrete pavement, provide Class II granular fill at varying thickness as required to the underside of the proposed aggregate, and place 8" virgin 22A aggregate.
- b. **Alternate #3** - Mill the existing HMA, remove and dispose of the existing concrete pavement, use the reclaimed millings as fill and

subbase at varying thickness as required to the underside of the proposed aggregate base, and place virgin 22A aggregate for the aggregate base.

19. Assume that the Utility companies can perform their relocations within the time frame of the contract.
20. A Special Provision for Planter and Planter Pad is attached to this Addendum.
21. Waterproofing is to be provided at the existing buildings from the bottom of the concrete that is being removed adjacent to the building, to the top of the proposed concrete sidewalk. Add the pay item of **Waterproofing** and paid by the square foot.
22. Expansion joint, backer rod, and caulk are to be provided at the full thickness of the proposed concrete sidewalk where new slab abuts the existing building. Add the pay item of **Expansion Jt, Backer Rod, Caulk** that will be paid for by the Foot and include 1/2" expansion joint material, 5/8" backer rod, and caulk (Sikaflex 2C or approved equal).

[FORM163]

City of Mt. Pleasant, Michigan

**BID PROPOSAL**

**2013 PARKING LOT #2 IMPROVEMENTS**

**ADDENDUM #1**

TO: City Hall/City Clerk  
320 W. Broadway Street  
Mt. Pleasant, MI 48858

BID DATE: March 5, 2013  
TIME: 1:30 p.m.

The undersigned, as Bidder, hereby declares that his bid is made in good faith without fraud or collusion with any person or persons bidding on the same Contract; that he has carefully read and examined the Contract Documents, including the Notice to Bidders, Instructions, Bond Forms, Technical and Detailed Specifications, and Contract Drawings, for the designated work and understands all of the same; that he, or his representative, has made such a personal investigation at the site as is necessary to determine the character and difficulties attending the execution of the proposed work; and he proposes and agrees that if this Proposal is accepted, he will contract with the Owner in the form of the Contract hereto annexed, to provide necessary machinery, tools, apparatus and other means of construction, including utility and transportation services, necessary to do all the work and furnish all the materials and equipment specified or referred to in the Contract Documents, including Addenda No. \_\_, \_\_, and \_\_, in the manner and time therein prescribed, and according to the requirements of the Owner as therein set forth to furnish Contractor Bonds and Insurance required of the Contractor by the Contract Documents, and that he will take in full payment therefore the unit prices set forth in the following Proposal.

The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any irregularities in the bidding.

The Bidder agrees that his bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving the bids.

Upon receipt of a written Notice of Award of the Bid, the Bidder shall execute the formal Contract Agreement attached hereto within ten (10) days and shall deliver to the Owner a Surety Bond or Bonds required. In the event the Contract and Bond are not executed within the time above set forth, the Bid Deposit attached in the sum of five percent (5%) of the Bid Proposal shall become the property of the Owner as liquidated damages for the delay and additional expense to the Owner caused thereby.

The Bidder hereby agrees to commence work under this Contract on or before date to be specified in the written Notice to Proceed executed by the Owner and to fully complete the project as stipulated in the Special Conditions. The Bidder further agrees to pay as liquidated damages the sum of Two Hundred Dollars (\$200.00) for each consecutive calendar day thereafter, as provided.

The below unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds specified, and the Bidder agrees to perform all of the work described in the Specifications and/or shown on the Plans for the following unit prices:

**BASE BID**

| ITEM | DESCRIPTION                                   | QTY  | UNIT | UNIT PRICE | TOTAL COST |
|------|---|------|------|------------|------------|
| 1    | Cold Milling HMA Surface                      | 1    | LS   | \$         | \$         |
| 2    | Excavation, Earth                             | 1500 | CYD  | \$         | \$         |
| 3    | Embankment, CIP                               | 400  | CYD  | \$         | \$         |
| 4    | Curb and Gutter, Rem                          | 2400 | FT   | \$         | \$         |
| 5    | Sidewalk, Rem                                 | 900  | SYD  | \$         | \$         |
| 6    | Sidewalk, Rem, Utility                        | 360  | SF   | \$         | \$         |
| 7    | Pavt, Rem, Utility                            | 750  | SF   | \$         | \$         |
| 8    | Structures, Removal, Portion (Conc Steps)     | 1    | LS   | \$         | \$         |
| 9    | Tree, Rem                                     | 7    | EA   | \$         | \$         |
| 10   | Stump, Rem                                    | 7    | EA   | \$         | \$         |
| 11   | Dr Structure, Rem                             | 1    | EA   | \$         | \$         |
| 12   | Sewer, Rem, Less that 24 inch                 | 48   | FT   | \$         | \$         |
| 13   | Subbase, CIP (Class II or Reclaimed Millings) | 1500 | CYD  | \$         | \$         |
| 14   | Aggregate Base, 2 inch                        | 4900 | SYD  | \$         | \$         |
| 15   | Aggregate Base, 8 inch (Reclaimed Millings)   | 4500 | SYD  | \$         | \$         |
| 16   | Maintenance Gravel, LM                        | 75   | CYD  | \$         | \$         |
| 17   | Concrete Pavt, Rem, Special                   | 1300 | CYD  | \$         | \$         |
| 18   | Curb, Conc, Det F2                            | 800  | FT   | \$         | \$         |
| 19   | Curb, Conc, Det F4                            | 20   | FT   | \$         | \$         |
| 20   | Driveway, Opening, Conc, Det M                | 200  | FT   | \$         | \$         |
| 21   | Dr Structure, 24 inch dia                     | 5    | EA   | \$         | \$         |
| 22   | Dr Structure Cover, CB, Modified              | 6    | EA   | \$         | \$         |
| 23   | Dr Structure Cover, STM, Modified             | 2    | EA   | \$         | \$         |
| 24   | Dr Structure Cover, Adj, Case 2               | 6    | EA   | \$         | \$         |
| 25   | Dr Structure, Tap, 12 inch                    | 2    | EA   | \$         | \$         |
| 26   | Sewer, CI A, 8 inch, Tr Det B                 | 60   | FT   | \$         | \$         |
| 27   | Sewer, CI A, 12 inch, Tr Det B                | 90   | FT   | \$         | \$         |
| 28   | Downspout Connection                          | 3    | EA   | \$         | \$         |
| 29   | Sewer Tap, 12 inch                            | 2    | EA   | \$         | \$         |
| 30   | Gas/Water Shutoff Cover, Adj, Case 1          | 2    | EA   | \$         | \$         |
| 31   | Water Service, 2 inch                         | 1    | LS   | \$         | \$         |

|    |   |      |     |    |    |
|----|---|------|-----|----|----|
| 32 | Meter Box & Yard Hydrant                            | 1    | LS  | \$ | \$ |
| 33 | Irrigation System                                   | 1    | LS  | \$ | \$ |
| 34 | Sidewalk, Conc, 4 inch                              | 7000 | SF  | \$ | \$ |
| 35 | Sidewalk, Decorative Colored, 4 inch                | 1100 | SF  | \$ | \$ |
| 36 | Sidewalk Ramp, Conc, 6 inch                         | 200  | SF  | \$ | \$ |
| 37 | Detectable Warning Surface                          | 26   | FT  | \$ | \$ |
| 38 | Waterproofing                                       | 400  | SF  | \$ | \$ |
| 39 | Expansion Jt, Backer Rod, Caulk                     | 550  | FT  | \$ | \$ |
| 40 | Planter and Planter Pad                             | 4    | EA  | \$ | \$ |
| 41 | Pipe Bollards                                       | 7    | EA  | \$ | \$ |
| 42 | Conc Pavt, Reinf, 6 inch                            | 850  | SYD | \$ | \$ |
| 43 | Conc Pavt, Reinf, Decorative Colored, 6 inch        | 650  | SF  | \$ | \$ |
| 44 | Header Strip, Conc, 24 inch wide                    | 305  | FT  | \$ | \$ |
| 45 | Underdrain, Subgrade, Open-Graded, 4 inch, Modified | 350  | FT  | \$ | \$ |
| 46 | HMA, 3C, Leveling Course                            | 520  | TON | \$ | \$ |
| 47 | HMA, 4C, Top Course                                 | 520  | TON | \$ | \$ |
| 48 | Pavt Mrkg, Waterborne, 4 inch, white                | 2400 | LS  | \$ | \$ |
| 49 | Pavt Mrkg, Waterborne, 4 inch, Blue                 | 450  | EA  | \$ | \$ |
| 50 | Pavt Mrkg, Waterborne, "NO PARKING - LOADING ONLY"  | 2    | EA  | \$ | \$ |
| 51 | Pavt Mrkg, Ovly Cold Plastic, Barrier Free Symbol   | 4    | EA  | \$ | \$ |
| 52 | Dumpster Enclosure                                  | 1    | LS  | \$ | \$ |
| 53 | Car Charging Station                                | 1    | EA  | \$ | \$ |
| 54 | Light Standard Shaft and Luminaire, 15 foot         | 9    | EA  | \$ | \$ |
| 55 | Light Standard Shaft and Luminaire, 24 foot         | 5    | EA  | \$ | \$ |
| 56 | Light Std Fdn, Short                                | 9    | EA  | \$ | \$ |
| 57 | Light Std Fdn, Tall                                 | 5    | EA  | \$ | \$ |
| 58 | Electrical Distribution, Panel and Wiring           | 1    | LS  | \$ | \$ |
| 59 | Bench with Back                                     | 2    | EA  | \$ | \$ |
| 60 | Bench without Back                                  | 2    | EA  | \$ | \$ |
| 61 | Bike Rack   | 2    | EA  | \$ | \$ |
| 62 | Trash Receptacle                                    | 4    | EA  | \$ | \$ |
| 63 | Plant Hanger Bracket and Basket                     | 26   | EA  | \$ | \$ |
| 64 | Ginkgo biloba, 3 inch                               | 2    | EA  | \$ | \$ |
| 65 | Acer x freemanii 'AutumnBlaze',                     | 6    | EA  | \$ | \$ |



aggregate for the aggregate base.

|    |                                 |      |     |    |    |
|----|---------------------------------|------|-----|----|----|
| 80 | Aggregate Base, 8 inch (virgin) | 4500 | SYD | \$ | \$ |
|----|---------------------------------|------|-----|----|----|

**TOTAL**      \$  
=====

**(figures)**

\_\_\_\_\_  
(written)

\_\_\_\_\_ and \_\_\_\_/100 Dollars

RESPECTFULLY SUBMITTED:

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ ST \_\_\_\_\_ Zip Code \_\_\_\_\_

Area Code/Telephone Number \_\_\_\_\_ Date \_\_\_\_\_

Fax \_\_\_\_\_

EMAIL \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Print of Type Name and Title \_\_\_\_\_

# EXPERIENCE QUESTIONNAIRE

To be furnished by Bidder  
City of Mt. Pleasant, Michigan

**The signatory of this proposal guarantees the truth and accuracy of all statements and of all answers hereinafter made.**

1. How many years have you been in business as a contractor under your present name?  
\_\_\_\_\_

2. How many years have you been a principal officer of a firm under a different name?  
\_\_\_\_\_

Name of Firm \_\_\_\_\_

3. What projects of a similar nature has your organization contracted for within the past five years? (NOTE: Fill out each blank completely.)

| <b>Name of Owner &amp; Location</b> | <b>Name/Address/Phone # of Person in Charge as Reference</b> | <b>Type of Work</b> | <b>Value of Work</b> | <b>Date Completed</b> |
|-------------------------------------|--|---------------------|----------------------|-----------------------|
|-------------------------------------|--|---------------------|----------------------|-----------------------|

1. \_\_\_\_\_  
\_\_\_\_\_

2. \_\_\_\_\_  
\_\_\_\_\_

3. \_\_\_\_\_  
\_\_\_\_\_

4. \_\_\_\_\_  
\_\_\_\_\_

**City of Mt. Pleasant, Michigan  
SUPPLEMENTAL SPECIFICATIONS**

**2013 Parking Lot #2 Improvements**

Construction Specifications

The work under this contract shall be completed following the 2012 MDOT Standard Specifications for Construction along with the City of Mt. Pleasant 2012 Standard Special Provisions, except as modified herein. This is not a state sponsored project; therefore, the payment of prevailing wages is not a requirement of this contract.

1. Time Constraints

Completion of this project within the time constraints described below is essential. The Contractor shall begin work on the project on April 1, 2013. In the event that weight restrictions make it impossible to start by April 1, 2013, the Contractor shall start no later than April 22, 2013. Contractor has 8 weeks to complete the project from start of construction.

2. Construction Phasing

This project will be completed in two phases.

Prior to Phase I starting, the curb and island in the Phase II (western portion) area will need to be removed to two feet below existing grade and filled with sand and topped with 8" of 22A aggregate flush to the existing pavement. This area will also need to be temporarily re-striped for use during Phase I.

As indicated on the plans, the eastern portion of the parking lot will be completed in Phase I, including the entire dumpster and equipment enclosure, top course of HMA, and final striping of the parking spaces.

The existing sidewalk adjacent to the buildings will remain in place until the parking area of Phase I is complete. The existing sidewalk must be removed and the new sidewalk placed within a 1 week period.

After completion of Phase I, Phase II can commence in a similar manner.

Mosher Street must be complete, cleaned, and open to traffic for Le Tour de Mont Pleasant bicycle race from 6/7/13 to 6/9/13.

3. Holidays

No work is to be scheduled by the contractor on Sundays, nor on the following holidays or holiday weekends:

Memorial Weekend

5/25/2012 to 5/28/2012

#### 4. Access

Access to driveways for local residents, schools, and businesses shall be maintained and available for use. All driveways shall be opened by the contractor when the contractor is not working, including all evenings, Sundays, and holidays, except as approved in writing by the inspector and with written notification to the residents/owners.

#### 5. Refuse and Recyclable Collection

The Contractor shall schedule the work to allow and provide access for refuse and recycling contractors to provide their services to the businesses. If the refuse and recycling contractors are unable to collect materials due to construction operations, then the construction contractor shall collect and dispose of the refuse and collect and deliver the recyclable material to the Material Recovery Facility (MRF) on River Road at no cost to the City. It is the responsibility of the construction contractor to contact the refuse and recycling contractors to coordinate operations.

#### 6. Audio-Video Recording

An aboveground audio-video recording of the construction area along and adjacent to the project meeting the requirements of the Special Provision for Preconstruction Audio-Video Recording is required. Deliver to DPW prior to mobilization.

#### 7. Location Verification

The Contractor shall excavate, as the Contractor deems necessary, or at the direction of the Engineer, all points of the pipe connection or reconnection to verify the material, condition, location, alignment, and elevation prior to setting of manholes, valves, tees, or bends. The cost of this work and the temporary and permanent restoration thereof shall be included in the various unit prices for the project.

#### 8. Concrete Removal

Sidewalk, concrete drives, and curb and gutter removal shall be to existing construction joints. Unbroken joints shall be saw cut prior to removal. If a saw cut can be made where the remaining section is undisturbed, unbroken or unjointed, and is five feet (5') in length at its least direction, then removal may be to that point.

#### 9. Demolition Vibration

Efforts shall be made to minimize excessive vibration in the course of concrete removal due to the proximity and age of the existing buildings adjacent to

the project. The City may employ vibration monitoring to track and record the amount of vibration created during the project.

#### 10. Excavated Material

All excavated material, concrete, asphalt, broken pipe, and other material shall become the property of the Contractor for disposal, except as noted.

#### 11. Tree Protection and Preservation

The Contractor shall protect and preserve trees within the construction area. If the Contractor causes tree damage resulting from non-compliance with the tree crossing detail, or if excessive damage occurs to the trunk or main limbs of a tree, the Contractor shall pay for the damages to the tree. The value of the tree shall be the amount appraised by the City's tree consultant. The Contractor shall also pay for the cost of removal in the event the damaged tree must be removed within a two-year period.

#### 12. Truck Route Streets

The Contractor shall not allow any trucks, or equipment associated with this project to be driven on non-truck route City streets. The Contractor shall ensure that all trucks and equipment associated with the project travel only on streets identified as truck route streets on the Truck Route Map in the construction specification details. If any of the Contractors, the Contractors' subs, and/or suppliers, are seen driving on other City streets, the Contractor shall be required to pay for resurfacing the street with a polymer-modified asphalt approved by the City at a rate of application determined by the City.

#### 13. Utility Location

The Contractor shall expose all existing utilities and services that will be crossed by proposed pipe. Utility locations and elevations, as shown on the plans, are approximations and shall be verified by the Contractor prior to beginning any work. The Contractor is required to call the MISS DIG system as noted in the Standard Construction Specifications.

#### 14. Soil Borings

Should a bidder desire to make additional soil borings within the parking lot, the Contractor making the borings shall first obtain a permit from Public Works. Insurance meeting the requirements of the City of Mt. Pleasant is required. The soil boring permit fee is \$25.00 per hole, and will be refunded if the results of the soil boring in the form of a soil-boring log are submitted to the City Engineer within one week after the close of bidding.

## 15. Insurance

The contractor shall carry insurance that will provide for the full replacement cost of any property that is damaged during the project. The contractor shall also pay the immediate costs of the homeowner/resident in the event an incident occurs, while waiting for the insurance company to make compensation. Immediate costs include but are not limited to: Hotel/Motel bills and meals if the building is unusable, costs for basic necessities such as beds or clothes in the event they are damaged.

## 16. Project Meetings

The contractor shall attend weekly progress meetings with the Engineer to provide updates on the project, the schedule of work for the following week, and to resolve outstanding issues.

## 17. Pre-Bid Meeting

There will be a mandatory pre-bid meeting on. This meeting will take place in the City Commission Chambers at City Hall, 320 W. Broadway Street, at The intent of the meeting will be to answer questions about the project and about the administration of the project.

City of Mt. Pleasant

SPECIAL PROVISION  
FOR  
**DECORATIVE CONCRETE PAVEMENT, SIDEWALK, AND HEADER STRIP**

City of MtPleasant

1 of 1

January 29, 2013

**A) Description.** This work consists of constructing decorative colored concrete sidewalks, pavements, and header strips and decorative finished sidewalks at the locations specified on the plans. Complete this work in accordance with the standard specifications, except as modified in the details on the plans and in this special provision.

1. **Submittals:** Submit a plan showing the types and locations of joints, reinforcement, and sequence of construction. Submit a report detailing the concrete mix designs to be used, including manufacturers and/or suppliers of mixture components. Submit technical data sheets for a single manufacturer's complete system for products and/or materials including admixtures, colorants, curing compounds, decorative concrete sealer, dry-shake finish materials, imprinting tools, and any other products requested by the Engineer. Submit Test Data Certification with test results conducted by an independent testing laboratory within the past 24 months reporting that the coloring pigment conforms to the general requirements of ASTM C 979. Obtain approval from the Engineer prior to beginning work.

2. **Certification:** Provide proof of Michigan Concrete Association (MCA) Decorative Concrete Certification, or proven equivalent manufacturer training and certification for placing decorative concrete, to the Engineer

**B) Materials.** Provide materials for the sidewalks in accordance with subsection 803.02 and for the pavements and header strips in accordance with subsection 602.02 of the Standard Specifications for Construction, except as modified herein. Provide material for an aggregate base course under the header strips in accordance with subsection 302.02 of the Standard Specifications for Construction. Provide detectable warning surfaces meeting the requirements of subsection 803.02.B of the Standard Specifications for Construction.

1. Use a single manufacturer's complete system for products and/or materials.

a. Concrete Colorant. Use complete pigment system including integral colorants, and/or release hardeners from one of the following manufacturers, or other sources as approved by the Engineer.

|                                     |              |
|-------------------------------------|--------------|
| Brickform .....                     | 989-792-9009 |
| Decorative Concrete Resources ..... | 866-792-9000 |
| Increte Systems .....               | 800-752-4626 |
| L.M. Scofield Co. ....              | 586-292-1492 |
| Prism Pigments .....                | 888-440-4250 |
| Proline Concrete Tools .....        | 800-795-4750 |
| Vexcon Chemicals .....              | 616-299-8897 |

- I. Concrete Integral Color (full depth). Use a Terra Cotta and Quarry Red, or approved equal, pre-weighed and packaged coloring pigment in either powder, granular, or liquid form. Ensure that materials comply with ASTM C 979 standards for integrally colored concrete.
- b. Curing Compound. Do not use standard curing compounds on decorative concrete. Instead use a surface sealer as listed in section d.3 of this special provision.
- c. Stamp Mats. Use semirigid polyurethane mats with projecting textured and ridged underside capable of imprinting texture and joint patterns on plastic concrete. Pattern is to match the existing stamped concrete at the adjacent round-about. Stamp mat is to become property of the City after the construction is complete.
- d. Surface Sealer. Use a Type I, Class A solvent acrylic sealer conforming to the requirements of ASTM C 1315 from the approved list below, or other as approved by the Engineer.
  - I. Brickform.
    - Safety-Seal MS-5.
  - II. Vexcon Chemicals.
    - Certi-Vex AC 1315 solvent base sealer.
    - Certi-Vex Gloss Sealer FT solvent base sealer.
- e. Slip resistant additive. Mix slip resistant additive with the sealer according to the manufacturer's recommendations.
  - I. Increte
    - Shur-Grip.
  - II. Vexcon Chemicals
    - Certi-Vex Grip.
  - III. H & C
    - SharkGrip.

### **C) Construction**

1. **Equipment.** Use tools capable of producing the light broom finish pattern(s) shown on the plans and/or as required by the Engineer.
2. **Field-Constructed Mock-up.** Prior to installation of colored concrete and/or textured concrete work, construct mock-up panels in place to verify color and texture selections and processes for qualities of appearance, materials, and construction. Build mock-ups to comply with the following requirements:
  - a. Size. Cast a minimum 8 foot by 8 foot mock-up to demonstrate typical joints, surface finish, texture, color, and standard of workmanship.

b. Acceptance. If Engineer determines that mock-up does not meet requirements, demolish and remove it from the site, and cast another until the mock-up is accepted. All costs associated with mock-ups in addition to the first will be borne by the Contractor.

c. Use. Keep accepted mock-up undisturbed during construction as a standard for comparison to completed work. Undamaged mock-up may be incorporated into the work or demolished and removed from the site when directed by the Engineer.

3. **Construction.** Construct sidewalks in accordance with subsection 803.03 of the Standard Specifications for Construction and Standard Plans R-28 and R-29 Series, except as modified in this special provision and the details on the plans. Construct the pavements and header strips in accordance with subsection 602.03 of the Standard Specifications for Construction and applicable standard plans, except as modified in this special provision and the details on the plans. Construct an aggregate base course under the header strips in accordance with subsection 302.03 of the Standard Specifications for Construction and the details on the plans. Install detectable warning surface according to the manufacturer's instructions and Standard Plan R-28 Series.

a. Preparation. Carefully lay out the locations of forms and joints, taking into consideration the orientation of the pattern as shown on the plans, intended aesthetics, and construction sequence.

b. Integral Color. Comply with the color manufacturer's published recommendations and instructions for mix designs, admixtures, concrete temperature, mixing, installing, finishing, and curing. Coordinate stamped colored concrete to ensure consistency in color, texture, and quality.

c. Pattern. Comply with MCA practices. Lay out to proper alignment and tool to a consistent depth while concrete is plastic. Do not allow the surface to crust over or harden before finishing pattern.

d. Mat Stamping. After floating and while concrete is plastic, apply mat-stamped finish. Apply liquid release agent to the concrete surface and the stamp mat. Uniformly mist surface of concrete at a rate of 5 gal/1000 sq ft. After application of release agent, accurately align and place stamp mats in sequence. Uniformly load mats and press into concrete to produce required imprint pattern and depth of imprint on concrete surface. Gently remove stamp mats. Hand stamp edges and surfaces unable to be imprinted by stamp mats. Remove residual release agent according to manufacturer's written instructions, but no fewer than three days after stamping concrete. High-pressure-wash surface and joint patterns, taking care not to damage stamped concrete. Control, collect, and legally dispose of runoff.

e. Acid Washing. Acid washing of decorative surface may be required to achieve the desired finish as directed by the Engineer. A minimum of 36 hours after placement, apply a solution of 1 part muriatic acid to 30 parts potable water to the surface of the pavement and lightly scrub with a straw broom. Wash the surface until proper color has been achieved and then flush thoroughly.

f. Sealing Decorative Surface. Seal the surface with approved sealer according to the manufacturer's recommendations. Refer to section d.3. of this special provision for

approved products and to the manufacturer's technical data sheets for proper installation procedures, including moisture content restrictions at time of application.

**D) Measurement and Payment**

The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

| <b>Contract Item (Pay Item)</b>                       | <b>Pay Unit</b> |
|---|-----------------|
| Concrete Pavt, Reinf, Decorative Colored, 6 inch..... | Square Foot     |
| Sidewalk, Decorative Colored, 4 inch .....            | Square Foot     |
| Header Strip, Conc, 24 inch wide .....                | Foot            |

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**WATER SYSTEM MATERIALS AND CONSTRUCTION**

City of MtPleasant

1 of 1

January 29, 2013

**A) Description**

The Contractor shall furnish all labor, equipment, and materials to completely construct, test, and place in operation, the water system as shown on the drawings and specified herein.

**B) Materials**

1) Water Services

Allowable sizes are one inch, two inch, four inch (1", 1½", 2", 4"), or as specified for mains. Service saddles are required at each service connection on water main.

- i) Type K annealed seamless copper tubing conforming to ASTM B-88.
- ii) Two inch (2") shall be copper tube size, polyethylene (PE) water service pipe meeting AWWA C901 specifications. Markings on the pipe shall be AWWA C901, PE 3406, ASTM D-2737, dimension ratio SDR-9 brand name, date of manufacture, nominal size, sizing type (i.e., copper tube Size (CTS)), pressure rating 160 PSI at 73 1/2oF temperature, seal or (mark) of accuracy.

2) Service Fittings

- i) Unions will not be allowed between corporation stop and the curb stop. New services and the repair of existing services shall be made so that there will be a continuous, unbroken pipe between the corporation stop and the curb stop.
- ii) Service Saddles - Double-strap bronze or brass parts, AWWA CC threads. For PVC C900 pipe, use Ford S90 or approved equivalent.
- iii) Brass Corporation Stops [With CC (AWWA) threads
  - (1) Ford - two inch (2") F600 for copper pipe or FB 1000-G for CTS PE pipe; Mueller – two inch (2") H15000 for copper pipe or H-15008 for CTS PE pipe or approved equivalent.
- iv) Brass Curb Stops – two inch (2") Minneapolis pattern required.
  - (1) Ford Z22-777M, Mueller P25155 or approved equivalent. Polyethylene pipe will require a Ford C 06-44 adapter or equal.
- v) Curb Stop Boxes – six feet (6') burial – two inch (2") Minneapolis tapped base with 1-1/4 inch upper section riser with pentagon brass nut in cap. Mueller H10300, Ford type PL or approved equivalent.

- vi) Meter Box – Yokebox to be poured into slab  
(1) Ford Long Yokebox for 1” Meter: Model LYLBB144-444 or approved equal.
- vii) Yard Hydrant –  
(1) Woodford Model R34 Freezeless Yard Hydrant – 2 foot bury depth or approved equal.

## **C) Construction**

### 1) Water Service Connection

- i) Water service materials must meet City specifications and be two inch (2") in size, unless specified otherwise.
- ii) Each service will consist of a saddle, corporation, piping, curb stop, and curb box.
- iii) Depth shall be a minimum of six feet (6') and a maximum of seven feet (7') of cover to the finished grade of the project or development.
- iv) Curb boxes shall be adjusted to finished grade.
- v) Curb boxes shall be fully screwed onto the curb stop valve.
- vi) Pipe must be beveled and lubricated with an approved lubricant for use on potable water systems.
- vii) Curb stops are to be installed so that the key top is parallel to curb, or proposed curb, when in the off position. (i.e. Flow is to be perpendicular to curb.) Curb boxes installed in concrete or bituminous areas shall be separated from the concrete or bituminous by the use of a length of four inches (4") PVC pipe.
- viii) The Contractor will check to see if existing curb stop is in the on or off position and leave new curb stop in same position. No curb stop valve will be turned on unless there is someone in the building to ensure there are no leaks.
- ix) Water services, if extended past the curb stop, shall be extended straight for a minimum of six feet (6') or past the right-of-way line perpendicular to the curb or proposed curblines.
- x) Services are to be flushed prior to backfilling.
- xi) Taps are to be on the service side of the main.
- xii) Taps shall be horizontal to five degrees above horizontal.
- xiii) Cookies must be given to the inspector at the time of tap.
- xiv) There will be no taps fees

### 2) Live Taps

All service taps shall be made live taps, including chlorination and testing taps.

**D) Measurement and Payment**

1) Water Service, \_\_\_\_inch

i) Description

The work of Water Service, \_\_\_\_inch, shall consist of excavation, furnishing and placement of sand backfill, removal of surplus excavated material, tapping the main, furnishing and installation of service clamp or saddle, corporation stops, curb stops, curb boxes, service pipe, and fittings to connect to existing service pipe, in accordance with the Specifications. The water service pipe shall be directionally drilled in its entirety.

ii) Method of Measurement and Basis of Payment

Water Service, \_\_\_\_inch, shall be paid for by the unit each, and shall include tapping the main, furnishing and installation of service clamp or saddle, corporation stops, curb stops, curb boxes, service pipe, and fittings to connect to existing service pipe, in accordance with the Specifications.

1) Meter Box and Yard Hydrant

i) The work of Meter Box and Yard Hydrant includes all labor, material and equipment required to install the meter box and yard hydrant and associated piping.

**Contract Item (Pay Item)**

**Pay Unit**

|                                  |          |
|----------------------------------|----------|
| Water Service, ____inch .....    | Lump Sum |
| Meter Box and Yard Hydrant ..... | Lump Sum |

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**CONCRETE PAVT, REM, SPECIAL**

City of MtPleasant

1 of 1

January 29, 2013

**A) Description**

Remove Concrete Pavt, Rem, Special according to Section 204 of the 2012 Standard Specifications for Construction and this special provision. This Special Provision is intended to cover the removal of the concrete pavement below the existing asphalt paving as indicated on the boring logs.

**B) Materials**

Not used.

**C) Construction**

Remove concrete pavement in its entirety in accordance with the requirements of subsection 204.03.A.1 and Section 204.03 of the Michigan 2012 Standard Specifications for Construction.

Efforts shall be made to minimize excessive vibration in the course of concrete removal due to the proximity and age of the existing buildings adjacent to the project. The City may employ vibration monitoring to track and record the amount of vibration created during the project.

**D) Measurement and Payment**

The complete work as measured for Concrete Pavt, Rem, Special will be paid for at the contract unit price for the following contract pay items and includes all material, equipment, and labor to complete this item. The pay unit will be based upon field measured quantities in place, prior to breaking of concrete.

| <b>Contract Item (Pay Item)</b>   | <b>Pay Unit</b> |
|-----------------------------------|-----------------|
| Concrete Pavt, Rem, Special ..... | CYD             |

City of Mt. Pleasant

SPECIAL PROVISION  
FOR  
**SIDEWALK AND PAVEMENT REMOVAL FOR UTILITIES**

City of MtPleasant

1 of 1

February 21, 2013

**A) Description**

This work consists of removing sidewalk and/or pavement as necessary for installation of utilities by others. In the event that utilities need to be installed prior to normally scheduled sidewalk or pavement removal, these pay items will be utilized.

**B) Materials**

- 1) Utilize materials per Section 204.02 of the MDOT 2012 Standard Specifications for Construction.

**C) Construction**

- 1) Remove sidewalk and pavement per Section 204.03 of the MDOT 2012 Standard Specifications for Construction. All required sawcutting is included in the pay items below.

**C) Measurement and Payment**

The complete work as measured for Sidewalk and Pavement Removal for Utilities will be paid for at the contract unit price for the following contract pay items and includes all material, equipment, and labor to complete this item.

| <b>Contract Item (Pay Item)</b> | <b>Pay Unit</b> |
|---------------------------------|-----------------|
| Sidewalk, Rem, Utility.....     | Square Foot     |
| Pavt, Rem, Utility.....         | Square Foot     |

City of Mt. Pleasant

SPECIAL PROVISION  
FOR  
**SIGNAGE**

City of MtPleasant

1 of 1

February 21, 2013

**A) Description**

This work consists of furnishing and installing barrier free parking and stop signs and supports, and installing owner provided parking signs.

**B) Materials**

1) Stop Signs.

- i) Sign - 24" Type III, Type C panel and face per Section 919.02 of the 2012 Standard Specifications for Construction.
- ii) Support – Steel Post Sign Supports per Section 919.04 of the 2012 Standard Specifications for Construction.

2) Barrier Free Parking Signs.

- i) Sign - Size and style as shown on the plans.
- ii) Support – As shown on the plans.
- iii) Concrete Footing – Concrete , Grade S2 per Section 701 of the 2012 Standard Specifications for Construction.

3) Parking Signs – Provided by Owner.

**C) Construction**

1) Stop Signs

- i) Install per Section 810.03 of the 2012 Standard Specifications for Construction.

2) Barrier Free Parking Signs.

- i) Install footing and sign support plumb per the detail on the plans.

3) Parking Signs.

- i) Install Owner provided signs onto the new light pole supports with stainless steel band clamps.

**D) Measurement and Payment**

The complete work as measured for Signage will be paid for at the contract unit price for the following contract pay items and includes all material, equipment, and labor to complete these items.

- i) The unit price for Stop Signs and Barrier Free Parking Signs includes the sign, support and footing (if required).'
- ii) The unit price for Parking Signs includes all labor, material, and equipment to install the owner supplied parking signs onto the new light poles.

**Contract Item (Pay Item)**

**Pay Unit**

|                                    |      |
|------------------------------------|------|
| Stop Sign .....                    | Each |
| Barrier Free Sign.....             | Each |
| Parking Sign, Owner Provided ..... | Each |

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**WATERPROOFING AND SEALANTS**

City of MtPleasant

1 of 1

February 21, 2013

**A) Description**

This work consists of removing sidewalk and/or pavement as necessary for installation of utilities by others. In the event that utilities need to be installed prior to normally scheduled sidewalk or pavement removal, these pay items will be utilized.

**B) Materials**

1) Waterproofing.

- i) Cold-applied, Emulsified-Asphalt Damproofing per ASTM D 1227, Type III, Class I.

2) Expansion Joint

- i) ½" fiber joint filler per subsection 914.03.A of the MDOT 2012 Standard Specifications for Construction.

3) Backer Rod

- i) Solid, round, closed cell, cross-linked foam meeting the requirements of ASTM D 5249, for Type 3, of diameter and density required to control sealant depth and prevent bottom-side adhesion of sealant.

4) Caulk

- i) Sikaflex 2C or approved equal.

**C) Construction**

1) Waterproofing

- i) Examine substrates, areas, and conditions with Applicator present, for compliance with requirements for surface smoothness, surface moisture, and other conditions affecting performance of bituminous damproofing work.

(1) Test for surface moisture according to ASTM D 4263.

- ii) Mask or otherwise protect adjoining exposed surfaces from being stained, spotted, or coated with damproofing. Prevent dampproofing materials from entering and clogging weep holes and drains.

- iii) Clean substrates of projections and substances detrimental to the dampproofing work; fill voids, seal joints, and remove bond breakers if any, as recommended in writing by prime material manufacturer.
  - iv) Comply with manufacturer's written instructions for dampproofing application, cure time between coats, and drying time before backfilling unless more stringent requirements are indicated.
    - (1) Apply dampproofing to provide continuous plane of protection.
    - (2) Apply additional coats if recommended in writing by manufacturer or to achieve a smooth surface and uninterrupted coverage.
- 2) Expansion Joints: Form expansion joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
- i) Locate expansion joints at intervals of 50 feet unless otherwise indicated
  - ii) Extend joint fillers full width and depth of joint.
  - iii) Terminate joint filler not less than 1/2 inch or more than 1 inch below finished surface if joint sealant is indicated.
  - iv) Place top of joint filler flush with finished concrete surface if joint sealant is not indicated.
  - v) Furnish joint fillers in one-piece lengths. Where more than one length is required, lace or clip joint-filler sections together.
  - vi) During concrete placement, protect top edge of joint filler with metal, plastic, or other temporary preformed cap. Remove protective cap after concrete has been placed on both sides of joint.
- 3) Backer Rod
- i) Install joint-sealant backings of kind indicated to support joint sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
    - (1) Do not leave gaps between ends of joint-sealant backings.
    - (2) Do not stretch, twist, puncture, or tear joint-sealant backings.
    - (3) Remove absorbent joint-sealant backings that have become wet before sealant application and replace them with dry materials.
- 4) Caulk
- i) Install joint sealants using proven techniques that comply with the following and at the same time backings are installed.
    - (1) Place joint sealants so they directly contact and fully wet joint substrates.

- (2) Completely fill recesses in each joint configuration.
- (3) Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

**C) Measurement and Payment**

The complete work as measured for Waterproofing and Sealants will be paid for at the contract unit price for the following contract pay items and includes all material, equipment, and labor to complete this item.

The unit price for Waterproofing includes preparation of the substrate, and all necessary labor, material, and equipment to provide a complete waterproofing system.

The unit price for the Expansion Jt, Backer Rod, Caulk include the cost of the following:

- i) Providing and placing required joint materials such as expansion joint fillers, backer rod, and sealants.
- ii) Forming and cleaning of joints.

| <b>Contract Item (Pay Item)</b>      | <b>Pay Unit</b> |
|--------------------------------------|-----------------|
| Waterproofing.....                   | Square Foot     |
| Expansion Jt, Backer Rod, Caulk..... | Foot            |